



CONSTRUCTION EQUIPMENT

700821 HILLSBOROUGH VOLVO L120H 633404 - DIESEL ENGINE



Sample No: VCP437910
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 700821 HILLSBOROUGH



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
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SAMPLE INFORMATION

Sample Number	VCP437910	VCP414720	---	---
Sample Date	08 Apr 2024	28 Sep 2023	---	---
Machine Hours	2034	1023	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 13.0	---	---
Base Number (BN)	mg KOH/g	█ 9.4	█ 9.6	---	---
Oxidation (PA)	%	85	72	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.5	█ 0.3	---	---
Nitration (PA)	%	76	53	---	---
Sulfation (PA)	%	61	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	▲ 21	█ 12	---	---
Sodium	ppm	█ 3	█ 2	---	---
Potassium	ppm	█ 2	█ 2	---	---



WEAR METALS

Iron	ppm	█ 24	█ 13	---	---
Copper	ppm	█ 9	█ 4	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ 2	█ 1	---	---
Aluminum	ppm	● 17	█ 8	---	---
Chromium	ppm	█ 1	█ <1	---	---
Molybdenum	ppm	█ 43	█ 42	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 1	█ <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 1833	█ 1576	---	---
Magnesium	ppm	█ 593	█ 508	---	---
Zinc	ppm	█ 1253	█ 1112	---	---
Phosphorus	ppm	█ 1058	█ 949	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 25	█ 33	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0093
Unique No: 11018406
Signed: Sean Felton
Report Date: 10 May 2024



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GRAPHS

